

### ABSTRACT

Nuclear Magnetic Resonance imaging apparatus, comprising a unit (1) for exciting and receiving nuclear spin signals, an electronic driver unit (3) for driving the devices of the signal exciting and receiving unit, an electronic unit for controlling the electronic driver units, a unit (6) for processing the received signals, a unit (5) for displaying the image data processed, a unit (6) for filing and storing the image data, a unit (4) for entering commands, the said units being formed partially by specific hardware and partially by a commercial available personal computer running specific programs, a bidirectional communication bus (7') being further provided for the communication between the different units, which bus encodes data consistently with the communication buses normally used to interface computer peripheral devices, and/or in communication networks, or the like, characterized in that at least one part of the personal computer hardware is formed by a client computer (30) and part by a server computer (Server PC) communicating one with the other by means of a conventional network (7).